

ATTACHMENT A

LISTING OF CLAIMS WITH MARKINGS TO SHOW CHANGES MADE

Attachment A
Listing with Markings
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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1. (currently amended) A microchannel plate for receiving photoelectrons comprising:

a plate-like substrate web formed from a plurality of microtubules of a single type of acid soluble cladding glass and defining a pair of opposite faces;

the substrate web including a plurality of microchannel passages extending between the opposite faces and having openings in both of the opposite faces;

the microchannel openings having a funnel-like opening formed in the substrate web at least one of the opposite faces; and

the microchannel plate is formed from a microchannel plate preform including a core glass different from the cladding glass ~~and the cladding glass~~; the microchannel plate ~~perform~~ preform is first etched for a desired period of time with a first acid selected to create the funnel-like openings at the intersection of the core and cladding glass at least one of the opposite faces; the microchannel preform having been first etched is then subjected to a second etching process with a second selected acid to remove the remaining core glass forming the plate-like substrate web.

2. (canceled)

3. (currently amended) A method for manufacturing a microchannel plate including the steps of:

etching a microchannel plate preform having two opposite faces including a core glass and a single type of acid soluble cladding glass different from the core glass with a first acid selected for a desired period of time to create funnel-like openings at the intersection of the core and cladding glass at one or both of the opposite faces;

subjecting the microchannel preform having been first etched to a second etching process with a second selected acid to remove the remaining core glass forming the plate-like substrate web.

4. (previously presented) The invention of claim 1 wherein the first acid is hydrofluoric acid.

5. (withdrawn)

6. (previously presented) The invention of claim 1 wherein the second acid is hydrochloric acid.

7. (previously presented) The method of claim 3 wherein the first acid is hydrofluoric acid.

8. (withdrawn)

9. (previously presented) The method of claim 3 wherein the second acid is hydrochloric acid.

10. (new) A microchannel plate preform comprising:
- a plate-like substrate formed from a plurality of adjacent microtubules of a single type of acid soluble cladding glass and defining a pair of opposite faces; and
 - the microtubules being formed having an interior acid soluble core glass different from the cladding glass.